



PA3M167EBL = (Flanged) Black/White

PA3M167EWL = (Flanged) White

PA3M167EBTL = (Trimless) Black

PA3M167EWTL = (Trimless) White

Add a "1" for 120v or "2" for 277v at the end of the catalog number for voltage

Ceiling Cutout: 16 1/16" L X 6 3/16" W

Ordering Information: MR 16 Series A

| Cat. No. | Lamp | Ceiling Trim | Aperture Finish |
|---|----------------|--------------|-------------------------|
| PA3M167EBL | (3) 75W MR 16* | Overlap | Black with White Flange |
| PA3M167EWL | (3) 75W MR 16* | Overlap | White with White Flange |
| PA3M167EBTL | (3) 75W MR 16* | Trimless | Black |
| PA3M167EWTL | (3) 75W MR 16* | Trimless | White |
| Add a "1" for 120v or "2" for 277v at the end of the catalog number for voltage | | | |

Features

- Aperture Frame:** Provides clean support for lamp holders and overlapping flange or trimless installation. Extruded aluminum. Rigidly welded together on all corners.
- Media Cartridge:** Allows convenient loading and removal of up to two accessories (including lamp cover glass; lamp cover glass may be replaced with solid glass accessory). Easily installed and removed for lamping with a simple twisting motion. Constructed of diecast aluminum.
- Cross Blade Louver:** Extruded aluminum. 1" deep, provides additional shielding and can be easily removed.
- Adjustable Ring:** Allows 360° horizontal and 35° (on width) and 45° (on length) vertical adjustment.
- Tortontite Spring:** For easy installation of aperture frame.
- Housing:** Die formed 22 ga. steel. Finish: Black.
- Mounting Brackets:** Adjustable vertically from outside of housing.
- Thermal Protector:** Meets NEC, UL, and CSA requirements.
- Lampholder:** Steatite for GX/GY 5.3 Bi-Pin lamps. 250° C Teflon® leads.
- Junction Box:** 14 ga. steel, 4 x 3 1/2 x 2" box. Allows inspection from below.
- Lamp and Accessory Support:** .032" steel, flared for easy entry of Media Cartridge.
- Lens Retaining Ring:** .093" spring steel rod. Holds accessories in place.
- Lamp Guard:** Heat resistant clear glass. Lamp manufacturers requirement.
- Transformer Housing:** Die formed 18 ga. steel.

Electrical

Electronic Transformers: Offer reliable operation and are accessible from below for servicing. 12V Secondary 75 VA. each lamp.

Dimming Controls: Use only dimmers specifically designed for use with electronic transformers. Low Voltage fixtures may produce audible sound when used with dimmers, which may be objectionable in acoustically critical areas.

Electrical (continued)

UL/cUL listed for through branch circuit wiring with maximum of (8) no. 12 AWG, 90°C.

Finish

All painted finishes are powder coated baked enamel.

Options & Accessories

Accessories: 2 1/2" dia. series, filters, lenses, screens, and louvers. (2) accessories maximum, including lamp cover glass. Lamp guard glass may be replaced with solid glass accessory.

Labels

UL/cUL (Suitable for Damp Location), I B E W

Teflon® is a registered trademark of E.I. DuPont.

US Patent Pending

| | |
|------------------------|--------------|
| Job Information | Type: |
|------------------------|--------------|

Job Name:

Cat. No.:

Lamp(s):

Notes:



Lightolier a Genlyte company

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710

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Lighting Performance Data

| Narrow | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------|---------|---------|-----------|-----------|-------------|-------|------|-----|-----|-------|------|-----|-----|-------|------|-----|-----|-------|------|
| DISTANCE | 0' | 1' | 2' | 3' | 4' | 5' | 6' | | | | | | | | | | | | | |
| FOOTCANDLES (On Beam Center At 6') | 333 | 197 | 78 | 254 | 319 | | | | | | | | | | | | | | | |
| BEAM SPREAD (To 50% Max. CP) | 7° x 9° | 11.5° | 20° | 11° x 13° | 14° x 15° | | | | | | | | | | | | | | | |
| MAX. CANDLEPOWER (Candelas) | 12,000 | 7,076 | 2,800 | 9,150 | 11,500 | | | | | | | | | | | | | | | |
| RATED LIFE (Hours) | 3,000 | 3,000 | 3,000 | 3,000 | 3,500 | | | | | | | | | | | | | | | |
| COLOR TEMPERATURE | 3,000°K | 3,000°K | 3,000°K | 3,025°K | 3,025°K | | | | | | | | | | | | | | | |
| 0° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | | | | | | | | | | | |
| 8' | 188 | 1.0' | 1.3' | | 7' | 144 | 1.4' | 1.4' | 4' | 175 | 1.4' | 1.4' | 7' | 187 | 1.3' | 1.6' | 8' | 180 | 2.0' | 2.1' |
| 12' | 83 | 1.5' | 1.9' | | 10' | 71 | 2.0' | 2.0' | 6' | 78 | 2.1' | 2.1' | 10' | 92 | 1.9' | 2.3' | 12' | 80 | 2.9' | 3.2' |
| 16' | 47 | 2.0' | 2.5' | | 13' | 42 | 2.6' | 2.6' | 8' | 44 | 2.8' | 2.8' | 13' | 54 | 2.5' | 3.0' | 16' | 45 | 3.9' | 4.2' |
| 20' | 30 | 2.5' | 3.1' | | 16' | 38 | 3.2' | 3.2' | 10' | 28 | 3.5' | 3.5' | 16' | 35 | 3.1' | 3.6' | 20' | 25 | 4.9' | 5.3' |
| 30° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 7' | 159 | 1.1' | 1.3' | | 6' | 128 | 1.6' | 1.4' | 3' | 202 | 1.4' | 1.2' | 6' | 165 | 1.5' | 1.6' | 7' | 152 | 2.3' | 2.1' |
| 10' | 77 | 1.6 | 1.8' | | 9' | 57 | 2.4 | 2.1' | 5' | 73 | 2.4' | 2.0' | 9' | 73 | 2.3' | 2.4' | 10' | 75 | 3.3' | 3.0' |
| 13' | 46 | 2.1' | 2.4' | | 12' | 32 | 3.2' | 2.8' | 7' | 37 | 3.3' | 2.9' | 12' | 41 | 3.1' | 3.2' | 13' | 44 | 4.3' | 4.0' |
| 16' | 30 | 2.6' | 2.9' | | 15' | 20 | 4.0' | 3.5' | 9' | 22 | 4.3' | 3.7' | 15' | 26 | 3.9' | 3.9' | 16' | 29 | 5.3' | 4.9' |
| 30° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 3' | 167 | 1.5' | 0.9' | | 2' | 221 | 1.7' | 0.8' | 1' | 350 | 1.6' | 0.7' | 2' | 286 | 1.6' | 0.9' | 3' | 160 | 3.1' | 1.6' |
| 4' | 94 | 2.0' | 1.3' | | 3' | 98 | 2.5' | 1.2' | 2' | 88 | 3.1' | 1.4' | 3' | 127 | 2.4' | 1.4' | 4' | 90 | 4.1' | 2.0' |
| 5' | 60 | 2.5' | 1.6' | | 4' | 55 | 3.3' | 1.6' | 3' | 39 | 4.7' | 2.1' | 4' | 71 | 3.2' | 1.8' | 5' | 58 | 5.1' | 2.6' |
| 6' | 41 | 3.0' | 1.9' | | 5' | 35 | 4.2' | 2.0' | 4' | 22 | 6.2' | 2.8' | 5' | 46 | 4.0' | 2.3' | 6' | 40 | 6.2' | 3.2' |
| 45° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 5' | 170 | 1.2' | 1.1' | | 4' | 156 | 1.6' | 1.1' | 3' | 110 | 2.2' | 1.5' | 4' | 202 | 1.6' | 1.3' | 5' | 163 | 2.5' | 1.9' |
| 7' | 87 | 1.7' | 1.6' | | 6' | 69 | 2.4' | 1.7' | 4' | 62 | 2.9' | 2.0' | 6' | 90 | 3.2' | 1.9' | 7' | 83 | 3.5' | 2.6' |
| 9' | 52 | 2.2' | 2.0' | | 8' | 39 | 3.3' | 2.3' | 5' | 40 | 3.6' | 2.5' | 8' | 51 | 3.1' | 2.6' | 9' | 50 | 4.5' | 3.4' |
| 11' | 35 | 2.7' | 2.4' | | 10' | 25 | 4.1' | 2.8' | 6' | 27 | 4.4' | 3.0' | 10' | 32 | 3.9' | 3.2' | 11' | 34 | 5.5' | 4.1' |
| Medium | | | | | | Wide | | | | | | | | | | | | | | |
| DISTANCE | 0' | 1' | 2' | 3' | 4' | 5' | 6' | | | | | | | | | | | | | |
| FOOTCANDLES (On Beam Center At 6') | 83 | 128 | 28 | 42 | 56 | | | | | | | | | | | | | | | |
| BEAM SPREAD (To 50% Max. CP) | 22° x 27° | 25° | 36° | 37° x 39° | 38° x 40° | | | | | | | | | | | | | | | |
| MAX. CANDLEPOWER (Candelas) | 3,000 | 4,600 | 991 | 1,500 | 2,000 | | | | | | | | | | | | | | | |
| RATED LIFE (Hours) | 3,000 | 3,500 | 3,000 | 3,000 | 3,500 | | | | | | | | | | | | | | | |
| COLOR TEMPERATURE | 3,025°K | 3,050°K | 3,050°K | 3,050°K | 3,500°K | | | | | | | | | | | | | | | |
| 0° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 6' | 83 | 2.3' | 2.9' | | 6' | 128 | 2.7' | 2.7' | 3' | 110 | 1.9' | 1.9' | 4' | 94 | 2.7' | 2.8' | 4' | 125 | 2.8' | 2.9' |
| 8' | 47 | 3.1' | 3.8' | | 8' | 72 | 3.5' | 3.5' | 5' | 40 | 3.2' | 3.2' | 6' | 42 | 4.0' | 4.2' | 6' | 56 | 4.1' | 4.4' |
| 10' | 30 | 3.9' | 4.8' | | 10' | 46 | 4.4' | 4.4' | 7' | 20 | 4.5' | 4.5' | 8' | 23 | 5.4' | 5.7' | 8' | 31 | 5.5' | 5.8' |
| 12' | 21 | 4.7' | 5.8' | | 12' | 32 | 5.3' | 5.3' | 9' | 12 | 5.8' | 5.8' | 10' | 15 | 6.7' | 7.1' | 10' | 20 | 6.9' | 7.3' |
| 30° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 4' | 122 | 2.1' | 2.2' | | 5' | 120 | 3.0' | 2.6' | 3' | 72 | 2.7' | 2.3' | 3' | 108 | 2.8' | 2.5' | 3' | 144 | 2.9' | 2.5' |
| 6' | 54 | 3.1' | 3.3' | | 7' | 61 | 4.2' | 3.6' | 5' | 26 | 4.5' | 3.8' | 5' | 39 | 4.6' | 4.1' | 5' | 52 | 4.8' | 4.2' |
| 8' | 30 | 4.2' | 4.4' | | 9' | 37 | 5.4' | 4.6' | 7' | 13 | 6.3' | 5.3' | 7' | 20 | 6.5' | 5.7' | 7' | 27 | 6.7' | 5.9' |
| 10' | 19 | 5.2' | 5.5' | | 11' | 25 | 6.6' | 5.6' | 9' | 8 | 8.1' | 6.8' | 9' | 12 | 8.3' | 7.4' | 9' | 16 | 8.6' | 7.6' |
| 30° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 2' | 94 | 3.5' | 1.9' | | 2' | 144 | 4.2' | 1.8' | 1' | 124 | 3.8' | 1.3' | 1' | 188 | 4.0' | 1.4' | 1' | 250 | 4.3' | 1.5' |
| 3' | 42 | 5.3' | 2.9' | | 3' | 64 | 6.2' | 2.7' | 2' | 31 | 7.6' | 2.6' | 2' | 47 | 8.1' | 2.8' | 2' | 63 | 8.6' | 2.9' |
| 4' | 23 | 7.0' | 3.8' | | 4' | 36 | 8.3' | 3.5' | 3' | 14 | 11.4' | 3.9' | 3' | 21 | 12.1' | 4.2' | 3' | 28 | 12.8' | 4.4' |
| 5' | 15 | 8.8' | 4.8' | | 5' | 23 | 10.4' | 4.4' | 4' | 8 | 15.2 | 5.2' | 4' | 12 | 16.1' | 5.7' | 4' | 16 | 17.1' | 5.8' |
| 45° AIMING ANGLE | | | | | | | | | | | | | | | | | | | | |
| | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W | D | FC | L | W |
| 3' | 118 | 2.4' | 2.0' | | 3' | 181 | 2.1' | 1.9' | 2' | 88 | 2.9' | 1.8' | 2' | 133 | 3.0' | 2.0' | 2' | 79 | 4.7' | 3.1' |
| 5' | 42 | 4.0' | 3.4' | | 5' | 65 | 4.7' | 2.1' | 3' | 39 | 4.4' | 2.8' | 3' | 59 | 4.5' | 3.0' | 3' | 44 | 6.3' | 4.1' |
| 7' | 22 | 5.7' | 4.8' | | 7' | 33 | 6.5' | 4.4' | 4' | 22 | 5.8' | 3.7' | 4' | 33 | 6.0' | 4.0' | 4' | 28 | 7.8' | 5.1' |
| 9' | 13 | 7.3' | 6.1' | | 9' | 20 | 8.4' | 5.6' | 5' | 14 | 7.3' | 4.6' | 5' | 21 | 7.5' | 5.0' | 5' | 20 | 9.4' | 6.2' |

Job Information

Type:

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Beam Center Location

Distance D (ft.) 1 2 3 4 5

Distance C (ft.) 1.7 3.5 5.2 6.9 8.7

Distance D (ft.) 6 7 8 9 10

Distance C (ft.) 10.4 12.1 13.8 15.6 17.3

This chart locates the distance (C) to the center of the beam for various distances (D) when the lamp is aimed 30° from vertical, the preferred aiming angle for lighting pictures on a wall.

Data are based on bare lamp photometrics. Dashed lines in beam spreads indicate narrow axes of oval shaped beams.

FC is initial footcandles at center of beam.

L and **W** are to the point that the candlepower drops 50% of maximum.

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